PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION International Bureau



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ³:

B41J 1/52; G06F 3/00; G06K 9/00

A1

(11) International Publication Number: WO 82/00442

(43) International Publication Date:18 February 1982 (18.02.82)

(21) International Application Number: PCT/US81/01017

(22) International Filing Date: 30 July 1981 (30.07.81)

(31) Priority Application Number:

174,684

(32) Priority Date:

1 August 1980 (01.08.80)

(33) Priority Country:

US

(71) Applicant; and

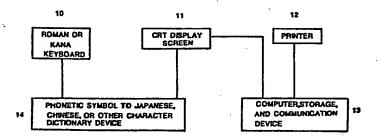
(72) Inventor: JOHNSON, Richard, Christian [US/US]; 21201 Gardena Drive, Cupertino, CA 95014 (US).

(74) Agents: WRIGHT, Jerry, G. et al.; Flehr, Hohbach, Test, Albritton & Herbert, Suite 3400, Four Embarcadero Center, San Francisco, CA 94111 (US). (81) Designated State: JP

Published

With international search report

(54) Thie: IDEOGRAPHIC WORD SELECTION SYSTEM



(57) Abstract

An ideographic word selection system distinguishes between the homonyms of a language as the operator inputs (10) the phonetic spelling of the desired character or word along with one or more related words for that character as necessary for unique selections from among homonyms. An electronically retrievable dictionary (14) includes each ideographic character (16, 17) to be used in the system along with several related words, thus providing for system flexibility for operators of different backgrounds and mnemonic preferences. A comparison of the operator input (10) with the dictionary (14) provides a unique word selection.

FOR THE PURPOSES OF INFORMATION ONLY

Codes used to identify States party to the PCT on the front pages of pamphlets publishing international applications under the PCT.

AT	Austria	KP	Democratic People's Republic of Korea
AU	Australia	IJ	Liechtenstein
BR	Brazil	LU	Luxembourg
Œ	Central African Republic	MC	Monaco
CG	Congo	MG	Madatascar
CH	Switzerland	MW	Malasi
CM	Cameroon	NL.	Netherlands
DE	Germany, Federal Republic of	NO	Norway
DK	Denmark	RO	Romania
FI	Finland	SE	Sweden
FR	France	SN	Senegal
GA	Gabon	SU	Soviet Union
GB	United Kingdom	TD	Chad
HU	Hungary	TG	Togo
JP	Sapan	US	United States of America

5

20

25

-1-

IDEOGRAPHIC WORD SELECTION SYSTEM

The present invention is directed to an ideographic word selection system, and specifically to a character processor which can rapidly enter Chinese, Japanese or Korean characters into a computer system, for example for printing purposes, the foregoing being done from a keyboard having a limited number of keys.

Word or character processing for Oriental languages such as Japanese, Chinese, Korean, etc, has been difficult because 10 of the structure of the written language; that is, there is no limited alphabet, rather thousands of different ideographic words and characters. Other languages, such as Arabic or Farsi, have a written alphabet but also have numerous different ways of writing each letter; the result-15 ing written language is difficult to process using a keyboard for entry because of the number of different characters which could be used. Moreover, if the pronunciation of a character or a word is used to access that character, a large set of homonyms will be produced because of the similar pronunciations of other characters or words. these are, for example, displayed on a cathode ray tube, it would still be very slow and cumbersome to make specific selections from those visible.





PCT

WORLD INTELLECTUAL PROPERTY ORGANIZATION International Bureau



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 3:

B41J 1/52; G06F 3/00; G06K 9/00

A1

(11) International Publication Number: WO 82/00442

(43) International Publication Date:18 February 1982 (18.02.82)

(21) International Application Number: PCT/US81/01017

(22) International Filing Date: 30 July 1981 (30.07.81)

(31) Priority Application Number:

174,684

(32) Priority Date:

1 August 1980 (01.08.80)

(33) Priority Country:

US

(71) Applicant; and

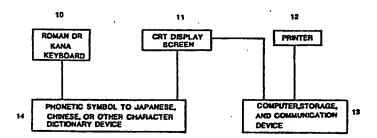
(72) Inventor: JOHNSON, Richard, Christian [US/US];21201 Gardena Drive, Cupertino, CA 95014 (US).

(74) Agents: WRIGHT, Jerry, G. et al.; Flehr, Hohbach, Test, Albritton & Herbert, Suite 3400, Four Embarcadero Center, San Francisco, CA 94111 (US). (81) Designated State: JP

Published

With international search report

(54) Title: IDEOGRAPHIC WORD SELECTION SYSTEM



(57) Abstract

An ideographic word selection system distinguishes between the homonyms of a language as the operator inputs (10) the phonetic spelling of the desired character or word along with one or more related words for that character as necessary for unique selections from among homonyms. An electronically retrievable dictionary (14) includes each ideographic character (16, 17) to be used in the system along with several related words, thus providing for system flexibility for operators of different backgrounds and mnemonic preferences. A comparison of the operator input (10) with the dictionary (14) provides a unique word selection.

FOR THE PURPOSES OF INFORMATION ONLY

Codes used to identify States party to the PCT on the front pages of pamphlets publishing international applications under the PCT.

AT	Austria	KP	Democratic People's Republic of Korea
AU	Australia	ū	Liechtenstein
RR	Brazil	w	Luxembourg
CF	Central African Republic	MC	Monaco
CG	Congo	MG	Madagascar
CH	Switzerland	MW	Malawi
CM	Cameroon	· NL	Netherlands
DE	Germany, Federal Republic of	NO	Norway
DK	Denmark	RO	Romania
FI	Finland	SE	Sweden
FR	France	SN	Senegal
GA	Gabon	SU	Soviet Union
GB	United Kingdom	TD	Chad .
HU	Hungary	TG	Togo
JP	Japan	US	United States of America
l			

IDEOGRAPHIC WORD SELECTION SYSTEM

The present invention is directed to an ideographic word selection system, and specifically to a character processor which can rapidly enter Chinese, Japanese or Korean characters into a computer system, for example for printing purposes, the foregoing being done from a keyboard having a limited number of keys.

Word or character processing for Oriental languages such as Japanese, Chinese, Korean, etc, has been difficult because 10 of the structure of the written language; that is, there is no limited alphabet, rather thousands of different ideographic words and characters. Other languages, such as Arabic or Farsi, have a written alphabet but also have 15 numerous different ways of writing each letter; the resulting written language is difficult to process using a keyboard for entry because of the number of different characters which could be used. Moreover, if the pronunciation of a character or a word is used to access that character, a 20 large set of homonyms will be produced because of the similar pronunciations of other characters or words. these are, for example, displayed on a cathode ray tube, it would still be very slow and cumbersome to make specific selections from those visible.

25

5

